

- A:QT trip
- Running 8.4e12 on target at 2.2 second, so most beam power ever. Previously had 9e12 at 2.4seconds.
- Issues
  - D:BPI10D
    - Network Storm after BALROG rebooted.
    - Now Disabled
      - Use Debuncher 53MHz BPM system. D:BPMI## (data logging of first array element)
  - Accumulator Reverse Proton Tune-up TBT
    - Appears that Low intensity caused problems
  - Flux Capacitor Scope Hang-ups
    - On going
    - Still not understood.
    - Budlong has some new code to try...
    - Flux Cap has both the GPIB and VXI11 connections.
  - A:IKIK
    - 50kV
    - No vacuum activity.
    - August 8th we had the adventure....that night 40KV was as high as we could run, so we have made progress since then.
  - Digital Alarm Masks
    - Pbar list is 1/2 the size of last week.
  - D:QF Ground Current
    - Went away...
    - Got to 1.5V
  - Holiday Party No Bowling!??!!?!?
- Maintenance and Studies
  - Recent
    - Transverse Core Heating and Cooling Rate (Werkema/Lebedev)

http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar08 &action=view&page=498&load= Not much we can do at this moment to make the core transvers cooling ☐ The amount of gain by adding TWTs may be small, but we'll try □ Heating rate 10mm-mrad/hr, 5 minutes damping rate - both fast Putting in TWTs will improve system, but not clear how much. □ Won't be ready until January. Steps according to Steve: ♦ Put twts in Check operations Possibly put equalizers in Steve says can tune local oscillators to a rev harmonic and move across the beam...interrupts stacking for two hours to do both planes...need about 20mA...have to cool beam into the core... □ Vladimir - check optics.... □ Peterson - check electronics... SEM Hardware (Sondgeroth) □ June Ye - made sigma routine change... Old and new diverge. Standard deviation on new is still larger. Cooling system checkout (Pasquinelli/Werkema) Proposed Continue cooling system maintenance D/A transfer efficiency Transverse beam size Debuncher tunes **Spares**  Target Current/old style □ New target - beryllium cover not hear until end of January...trying to speed up. Current target should last New version (Beryllium Jacket) Lens 10mm-6 - ready 10mm-7 - fill next week, ready for test stand by end of January. Debuncher RF Tubes 8 new rotator tubes 8 more on order 10 new driver tunes Cooling systems' TWTs 2-4GHz □ 4 twts □ 5 delta twts So 9 spares if we don't use deltas. Plus lots of 4-8GHz TWTs. IB7 Take pictures **PLC Power Supplies** 10-2 stub kept getting blasted by temp and/or radiation....we have nice little supplies backfed from upstairs....backfed 10-2 a couple years ago.

to be reset, have to cycle the Acopian PS locally.

10-1 on accopian...but have a more permenat supply. For now if the PLC has